

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference						
PCT204-0034	FOR FURTHER ACT	ΓΙΟΝ	See Form PCT/IPEA/416			
International application No.	International filing date(c	day/month/year)	Priority date (day/month/year)			
PCT/KR2004/000214	05 FEBRUARY 20	04 (05.02.2004)	05 FEBRUARY 2003 (05.02.2003)			
International Patent Classification (IPC)	or national classification a	and IPC				
IPC7 H04Q 7/38						
Applicant						
MIRACOM TECHNOLOGY	CO., LTD. et al					
This report is the international pre Authority under Article 35 and tra	liminary examination repo insmitted to the applicant a	ort, established by this In according to Article 36.	nternational Preliminary Examining			
2. This REPORT consists of a total of	of 3 sheets,	including this cover she	eet.			
3. This report is also accompanied by	by ANNEXES, comprising	:				
a. (sent to the applicant and	to the International Burea	u) a total of				
sheets of the desc and/or sheets con Administrative In	taining rectifications author	wings which have been rized by this Authority	amended and are the basis for this report (see Rule 70.16 and Section 607 of the			
	• •	hich this Authority cons	iders contain an amendment that goes			
beyond the disclo	sure in the international ap	plication as filed, as ind	licated in item 4 of Box No. I and the			
Supplemental Box b. (sent to the International	x. <i>l Bureau only)</i> a total of (in	idicate type and number	of electronic corrier(s))			
containing a sequence lis	sting and/or tables related to	hereto, in computer read	dable form only, as indicated in the			
4. This report contains indications re	lating to the following iten	ns:				
<u> </u>	representations relating to the following nems.					
Box No. II Priority						
Box No. III Non-establis						
Box No. IV Lack of unity of invention						
Box No. V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain documents cited						
Box No. VII Certain defects in the international application						
Box No. VIII Certain observations on the international application						
Date of submission of the demand		Date of completion of t	his report			
		Date of completion of t	ins report			
01 SEPTEMBER 2004	(01.09.2004)	17 MAY 2005	(17.05.2005)			
Name and mailing address of the IPEA/KR		Authorized officer				
Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea		OH, Je Uk	(Signal)			
Facsimile No. 82-42-472-7140		Telephone No. 82-42-	481-8222			

Box No	o. I Basis of the report
I. Wi	th regard to the language, this report is based on the international application in the language in which it was filed, unless servise indicated under this item.  This report is based on translations from the original language into the following language
to th	h regard to the <b>elements</b> of the international application, this report is based on (replacement sheets which have been furnished no receiving Office in response to an invitation under Article 14 are referred to in this reort as "originally filed" and are not exed to this report):  the international application as originally filed/furnished
	the description:  pagesas originally filed/furnished  pages*received by this Authority on  pages*received by this Authority on
	the claims:  pages
	the drawings:  pages as originally filed/furnished  pages* received by this Authority on  pages* received by this Authority on  the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3.	The amendments have resulted in the cancellation of:  the description, pages  the claims, Nos.  the drawings, sheets  the sequence listing (specify):  any table(s) related to sequence listing (specify):
4.	This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).  the description, pages the claims, Nos.  the drawings, sheets the sequence listing (specify):  any table(s) related to sequence listing (specify):
* If item	4 applies, some or all of those sheets may be marked "superseded."

PCT/KR2004/000214

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1. Statement			
Novelty (N)	Claims	1-12	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	1-12	YES
	Claims	NONE	NO
Industrial applicability (IA)	Claims	1-12	YES
	Claims	NONE	NO NO

## 2. Citations and explanations (Rule 70.7)

1. The claimed invention relates to a mobile apparatus for providing several services through a single traffic channel, which comprises: a vocoder for multiplexing /demultiplexing, a plurality of CMS (Concurrent Multiple Service), and a modem. It provides various data services as well as a voice service. The voice is processed by a vocoder part while the various data is being processed by a CMS component.

D1 (KP 2000-0074178) discloses an apparatus and a method for transmitting and receiving data according to a radio link protocol that is used for efficient transmission of data in radio environments.

D2 (KP 2000-0002687) discloses a mobile communication system for transmitting and receiving a voice and low/high speed data, which results in decrease in the source waste of a trunk line.

D3 (EP 1045606(Texas Instruments Inc.)(2000.10.18)) discloses a method for assigning frequencies and time slots in a framed wireless communication system. The same frequency channel is assigned to the same user for second and subsequent calls. For concurrent multiple calls from the same user, each call is assigned a unique time slot within a single frequency channel.

But none of the prior arts D1-D3 includes the mobile apparatus consisting of a vocoder for multiplexing/demultiplexing), a plurality of CMS, and a modem. In addition, they do not teach nor fairly suggest a mobile apparatus and method for providing several services through a single traffic channel. Therefore, the claimed invention meets the criteria set out in PCT Article 33(2)-(3).

2. Claims 1-12 have industrial applicability under PCT Article 33(4), because the subject matter claimed can be made or used in industry.